



### Surge Laboratories

Surge Laboratories is one of the most promising pharmaceutical company from Pakistan, focusing to embrace latest pharmaceutical technologies to introduce innovative pharmaceutical products, microencapsulated / coated APIs and professional pharmaceutical services in the country to excel the pharmaceutical product compliance, improve the overall health standards and enhance the quality of life.

Surge has invested significantly in its state of the art cGMP compliant manufacturing facility which is fully equipped with latest technologies, most modern Machinery and equipment to mitigate risk and produce high quality pharmaceutical branded generic formulations and value added microencapsulated APIs. The facility has dedicated sections for Dry Powder Cephalosporin Injectables, Liquid Injectables & Microencapsulated APIs and Excipients.

### Microencapsulation of APIs & Excipients

Microencapsulation is the process by which small particles or droplets are surrounded by a coating to produce capsules for the purpose of shielding the API or excipient from the surrounding environment in the micrometer to millimeter range. At Surge microencapsulation of APIs and excipient is carried out at all level; from laboratory scale to bulk scale on latest European equipment.

Taste Masking of Bitter APIs

Enteric Coated Pellets & MUPs

Moisture Protective Coating

DC Coated Granules / Pellets

Sustained / Modified Release Pellets

**Focused Markets** Asia | Far East | MENA | South & Central America | EU

[www.surgelaboratories.com](http://www.surgelaboratories.com)

Formulations  
redefined...

**Microencapsulation of APIs**



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Towards Better Product Compliance

# Coating of APIs and Excipients through Microencapsulation

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Taste that makes you happy 😊

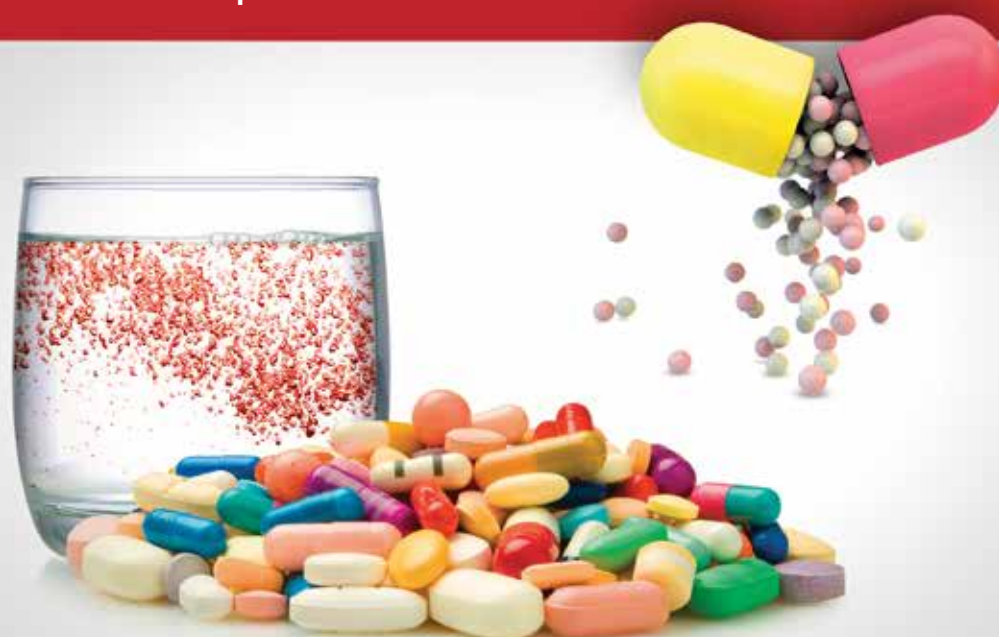


Microencapsulation of API's



Taste Masked Coated Granules for

- Oral Suspension / Dry Syrup
- Orally Dispersible Tablets
- Effervescent Sachet



## Microencapsulated Granules for Suspension / Dry Syrup / Oral Drops

Taste Masked Coated Granules	Activity w/w
CLARITHROMYCIN Taste Masked Coated Granules	27.5% - 43.75%
AZITHROMYCIN Taste Masked Granules	22.22% - 30%
SECNIDAZOLE Taste Masked Granules	47.6% - 50%
CIPROFLOXACIN Taste Masked Coated Granules	22.2% - 65%
LEVOFLOXACIN Taste Masked Granules	25% - 30%
FAMOTIDINE Taste Masked Granules	25%
LINEZOLID Taste Masked Coated Granules	50%

## Microencapsulated Granules for Orally Dispersible Tablets (ODT)

Taste Masked Coated Granules	Activity w/w
PARACETAMOL Taste Masked Coated Granules	25% - 80%
ZINC SULFATE Taste Masked Coated Granules	25% - 33%
ASCORBIC ACID Coated Granules	96% - 98%
DOMPERIDONE Taste Masked Granules	25%
CETIRIZINE Taste Masked Granules	25%
LORATADINE Taste Masked Granules	25%
LEVOCETIRIZINE Taste Masked Granules	25%

## Microencapsulated Pellets for Capsule

Taste Masked Coated Granules	Activity w/w
ESOMEPRAZOLE Enteric Coated Pellets / MUPS	8.5% - 22.5%
DULOXETINE Delayed Release Pellets	17.65% - 20%
MEBEVERINE Modified Release Pellets	50% - 80%
DICLOFENAC Na EC/SR Pellets	33% - 45%
ORLISTAT Coated Pellets	50%
TAMSULOSIN HCL Sustained Release Pellets	0.2%
PANTOPRAZOLE Enteric Coated Pellets	8.5%
LANSOPRAZOLE Enteric Coated Pellets	8.5%
DEXLANSOPRAZOLE Dual Delayed Release Pellets	22.5%
POTASSIUM CHLORIDE Sustained Release Pellets	80%

## Microencapsulated Granules for Combination Tablets & Sachet

Taste Masked Coated Granules	Activity w/w
ACETYSALICYLIC ACID Enteric Coated Granules / Pellets	50% - 65%
SODIUM BICARBONATE Coated Granules	96%
CITRIC ACID Coated Granules	96%
MEBEVERINE Taste Masked Coated Granules	50%
RIBOFLAVIN TMC / Odour Masked Granules	33%
PYRIDOXINE TMC / Odour Masked Granules	33%
IBUPROFEN Taste Masked Granules	70%
ESOMEPRAZOLE EC Pellets (MUPS) for 20mg Tablet	16.6%
ESOMEPRAZOLE EC Pellets for sachet	2.5%



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